

SECTION 17205 - STRUCTURED CABLING (Systimax SCS) EQUIPMENT RACKS

PART 1 – GENERAL

1.1 DESCRIPTION OF WORK

- A. Provide all materials and labor necessary to complete the installation of specific systems described herein and integration of all systems as indicated, specified herein or both. The work includes the following, as well as work not listed below but described elsewhere

1. Structured Cabling System General Provisions - Section 17100
2. Structured Cable Grounding System – Section 17204
3. Backbone System Cabling – Section 17250
4. Horizontal System Cabling - Section 17260

1.2 SCOPE AND RESPONSIBILITY

- A. Refer to Section 17200 – Paragraph 1.2

1.3 RELATED DOCUMENTS

- A. Refer to Section 17200 – Paragraph 1.3

1.4 QUALITY ASSURANCE

- A. Refer to Section 17200 – Paragraph 1.4

1.5 SUBMITTALS

- A. Refer to Section 17200 – Paragraph 1.5

1.6 SYSTEM DESCRIPTION

- A. Provide required equipment racks as required to support backbone and horizontal system cabling.
- B. Provide required horizontal and vertical cable management.

PART 2 – PRODUCTS

2.1 GENERAL

- A. Equipment specified is intended as a reference standard for level of quality.

Substitutions of equal quality will be accepted. All substitutions are to be approved prior to bid. Substitutions will not be accepted after the schedule bid time. Refer to Division 1.

- B. Provide materials listed by UL or ETL.

2.2 FREE STANDING EQUIPMENT RACKS

- A. Specifications:

1. Provide rack for mounting standard 19-inch rack width equipment.
2. 84" height.
3. Vertical wire management integrated into front of rack.
4. Bottom of rack with holes for bolting to floor
5. 11-gauge, 10-32 threaded equipment mounting rails.
6. Black painted finish.
7. TIA/EIA compliant.

- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following

1. Siemon Company
2. Ortronics
3. Middle Atlantic
4. Hubbell

2.3 HORIZONTAL WIRE MANAGEMENT

- A. Specification

1. Compatible with standard 19" equipment racks.
2. Welded steel construction
3. Finished in durable powder coat.
4. 1 and 2 space construction
5. Provide horizontal management suited for cable load above and below all patch panels, routers, and hubs.

- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following

1. Siemon Company
2. Middle Atlantic
3. Ortronics
4. Hubbel

PART 3 – EXECUTION

3.1 INSTALLATION

A. Racks:

1. Install racks in location as indicated on the Project Documents.
2. Install vertical wire management rings.
3. Install horizontal wire management system
4. Install racks as per manufacturer's recommendations.
5. Bolt relay racks to floor using expansion bolts.
6. Coordinate grounding of equipment racks.

3.2 LABELING

A. General:

1. Provide labeling based on ANSI/TIA/EIA-606 administration concepts
2. Provide typewritten labels, hand labeling is not acceptable
3. Administration database shall utilize identifiers on labels

B. Telecommunication Spaces and Pathways:

1. Use the identifier EF for the Telecommunications Entrance Facility.
2. Use the identifier MC for the Main Telecommunications Cross-Connect.
3. Provide an identifier for each Intermediate Telecommunications Room that indicates the floor and an ordinal designation (e.g. TR2A is the first telecommunications room on the second floor).
4. Provide an identifier for each Relay Rack in each Telecommunications Space that incorporates the Telecommunications Space identifier (e.g. TR2A-RR3 is the third relay rack in the first intermediate telecommunications room on the second floor).
5. Provide an identifier for each Telecommunications Backboard in each Telecommunications Space that incorporates the Telecommunications Space identifier (e.g. TR2A-TBB3 is the third backboard in the first intermediate telecommunications room on the second floor).

END OF SECTION 17205